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MEC  
10/12/05

Applicants : Petar R. Dvornic et al.  
Appl. No. : 10/712,739  
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**In the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Canceled).
2. (Currently Amended) A compound ~~cross-linked material~~ of claim [[1]] 19, wherein the alternating conjugated double and triple bonds are formed by intermolecular polymerization of diacetylene-functionalized dendritic polymers.
3. (Currently Amended) A compound ~~cross-linked material~~ of claim 2, wherein the dendritic polymer is a dendrimer.
4. (Currently Amended) A compound ~~cross-linked material~~ of claim 2, wherein the dendritic polymer is a hyperbranched polymer.
5. (Currently Amended) A compound ~~cross-linked material~~ of claim 2, wherein the dendritic polymer is a hyperbranched polymer having an average degree of branching from about 0.25 to about 0.45.
6. (Currently Amended) A compound ~~cross-linked material~~ of claim 2, wherein the dendritic polymer is a dendron.
7. (Currently Amended) A compound ~~cross-linked material~~ of claim 2, wherein the dendritic polymer is a dendrigraft.
8. (Currently Amended) A compound ~~cross-linked material~~ of claim 2, wherein the dendritic polymer is a dendronized linear polymer.